

METHOD AND APPARATUS FOR MANAGING TEMPERATURE IN A PATIENT

ABSTRACT OF THE DISCLOSURE

A fluid transfer assembly includes a fluid carrier and a heat exchange assembly
5 coupled to the fluid carrier. The heat exchange assembly includes a heat exchange
conduit, a heat exchanger in thermal communication with the heat exchange conduit,
and a pump. The pump defines a stroke volume that is greater than a fluid carrier
volume defined by the fluid carrier. The configuration of the stroke volume of the pump
and the fluid carrier volume of the fluid carrier limits the length of the fluid carrier. In
10 such a configuration, the heat exchange assembly orients in proximity to the body
during operation to create a relatively short *ex vivo* flow path between a body and the
heat exchange assembly. During operation, as the fluid flows along the *ex vivo* flow
path, the relatively short *ex vivo* flow path minimizes thermal change in the fluid caused
by a heat exchange between the walls of the fluid carrier and the atmosphere.

15